LIVSHITS, M.A.; PIKELINER, S.B.

Diamagnetic ejection of gas concentrations from sunspot areas. Astron. zhur. 41 no.3:464-472 My-Je '64. (MIRA 17:6)

1. Institut zemnogo magnetizma, ionosfery i raspredeleniya radiovoln AN SSSR i Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga.

1-25019-65 EWT(1)/EWO(v)/EEC-L/EEC(t) Pe-5/Pq-L GW/MLK

ACCESSION NR: AT5002743

\$/0000/64/000/000/0134/0144

R+1

AUTHOR: Pikel'ner, S. B.

TITLE: The evolution and dynamics of the Sun

SOURCE: Zemlya vo Vselennoy (The Earth in the universe). Moscow, Izd-vo Mysl', 1964, 134-144

TOPIC TACS: photosphere, hydrostatic equilibrium, thermal equilibrium, thermodynamic equilibrium, hydrogen, helium, stellar rotation, chromosphere, sun spot, flocculus, convective zone, deuterium, positron

ABSTRACT: The solar surface, or photosphere, is an incandescent opaque gas layer with a temperature of 5,800K and a density of about 10-7 g/cm³. About one half of the hydrogen inside the sun has been converted to helium in the past 3½ billion years. The sun has become 60% brighter in the past 5 billion years, and its energy reaching the Earth has increased by about 10%. The chromosphere is about 10,000 kilometers thick. Above it is the rarefied solar corona which has a weak glow and is very hot. The claim that the corona is transparent is not quite correct. In some areas of the spectrum the corona looks like a black body with a temperature of over one million degrees. The phenomena occurring on the solar Cord 1/2

L 25049-65

ACCESSION NR: AT5002743

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surface include sun spots with a temperature about 1,000K lower than the surrounding surface, solar flares which are apparently produced by the magnetic forces contracting the gas under certain field configurations, and prominences which are relatively dense gas clouds rising to a great height in the corona. The nuclear reactions occurring near the center of the sun are the source of its energy. The magnetic forces account for the flares and protuberances. The cosmic rays radiating from the flares reach the Earth and may be responsible to some extent for the formation of radiation belts around it. Orig. art. has: 6 figures.

ASSOCIATION: None

SUBMITTED: 30Jan64

ENGL: 00

SUB CODE: AA

NO REF SOV: 000

OTHER: 000

Card 2/2

18301-65 EMT(1)/EMG(v)/EEC-L/EEC(t) Pe-5/Pq-4 AFWL/ASD(a)-5/RAEM(c)/

ESD(t) GW ACCESSION NR: AP5001230 8/0033/64/041/006/1007/1020

AUTHOR: Pikel'ner, S. B.; Livahita, M. A.

TITLE: On the theory of heating the active and undisturbed chromo-

sphere

BOURCE: Astronomichenkiy zhurnal, y. 41, no. 6, 1964, 1007-1020

TOPIC TAGS: sonic wave, magnetic field, photosphere, chromosphere, corona, dissipation, refraction, Alfven velocity, sonic velocity, chromospheric active region

ABSTRACT: Convective motions beneath the photosphere generate sonic waves when no magnetic field exists in the photosphere and magneto-sonic waves when a magnetic field is present. These ascending waves sonic waves when a magnetic field is present. These ascending waves sonic waves when a magnetic field is present. These ascending waves sonic waves when a had corona. The state of the waves is changed heat the chromosphere and corona. Refraction impedes the heating of by dissipation and refraction. Refraction impedes the heating of layers where the Alfven velocity is much greater than the sonic veloclayers where the Alfven velocity is much greater than the sonic velocity. This state depends upon changes in the Alfven velocity, the denity. This state depends upon changes in the Alfven velocity, the denity, and the state of the magnetic field. The temperature and velocity distribution at various heights is computed and given in a table

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ACCESSION NR: AP5001230

which shows that refraction plays a role only from a height of 5000 km. The active regions of the chromosphere and the corona are brighter, with fluctuations in their brightness depending on the field intensity of the active regions in the photosphere. The Alfven velocity is small in lower chromospheric layers and increases with height, approaching sonic velocity. Then the waves interact and exchange their energies, forming a complicated wave front structure. These wave associations propagate along the magnetic lines of force, forming condensations and rarefactions. Orig. art. has: 14 formulas and 4 tables.

ASSOCIATION: Gos. astronomicheskiy institut im. P. K. Shternberga (State Astronomical Institute); Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR (Institute of Terrestrial Magnetism, Ionosphere, and Propagation of Radio Waves, AN SSSR)

SUBMITTED: 08Apr64

ENCL: 00

SUB CODE: AA

NO REF SOY: 012

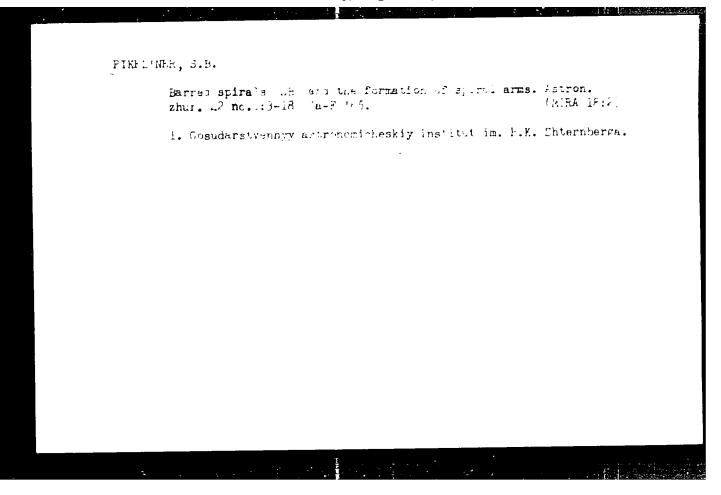
OTHER: 013

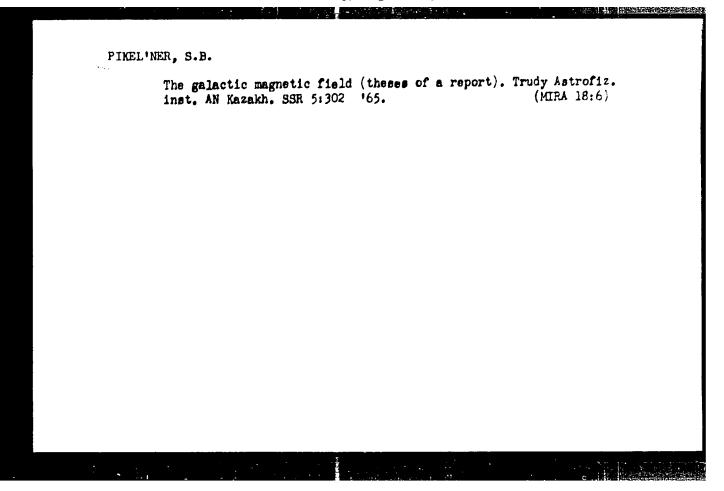
ATD PRESS: 3156

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012408





PIKEL'NER, S.B. Spiral arms and interacting galaxies. Astron. zhur. 42 no.3: (MIRA 18:5)

515-526 My-Je 165.

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.

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10年間は10年に大学の名が記されていた。

Spiral arms of galaxies and their magnetic field.

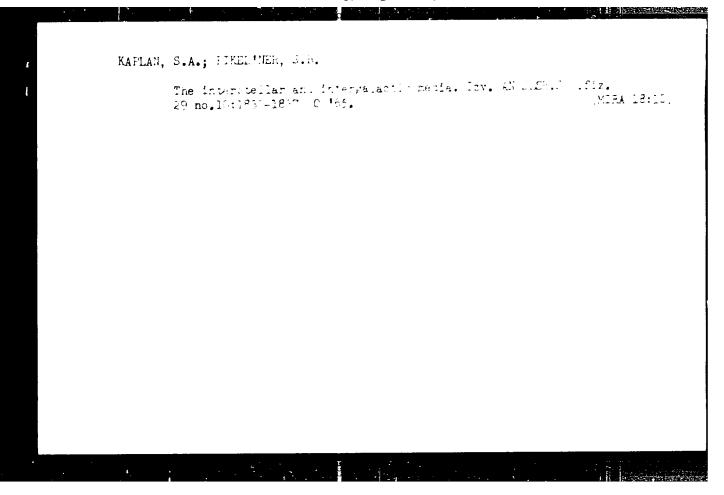
Zem. i vset. 1 no.4:24-32 J1-Ag '65.

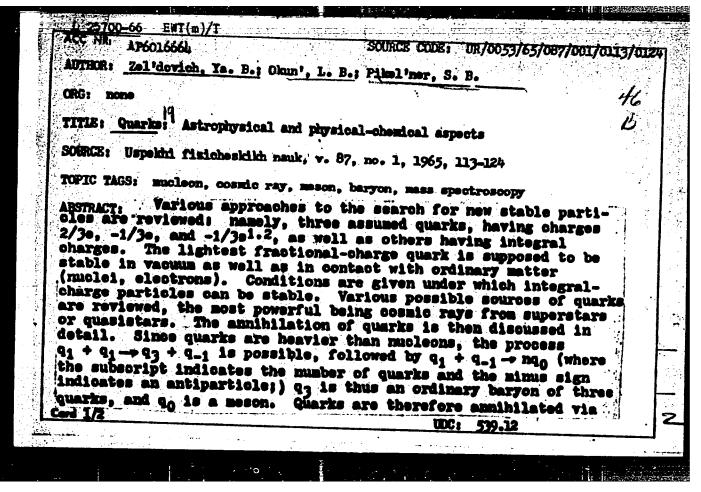
(MISA 1º:12)

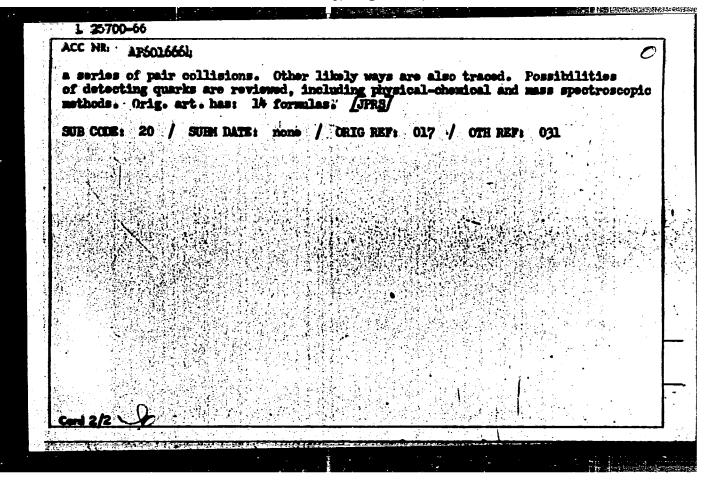
ZEL'DOVICH, Ya.R.; ONUN', E.E., FIXEL'NEW, D.B.

Quartets: astrophysical and physicochemical aspects. Usp. fiz. nauk 87 no.1:13.124 ft (45.)

(MIFA 18:9)







"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CANADA CANADA NA

CIA-RDP86-00513R001240

L 447 ne Ly William Control 1.4

ACC NRI AP6016849 SOURCE CODE: UR/0026/66/000/005/0111/0112

AUTHOR: Pikel'ner, S. B. (Moscow)

ORG: none

TITLE: Magnetic fields and solar atmosphere. Dynamics of the solar atmosphere

SOURCE: Priroda, no. 5, 1966, 111-112

TOPIC TAGS: sun, solar atmosphere, solar actuaty, solar flare, solar granule, solar magnetic field, sunspot, solar corona, solar chromosphere, gravitation wave, photosphere, solar wind, toroidal magnetic field, cosmic ray emission

ABSTRACT: The author reviews briefly quiet-star solar phenomena. He explains the mechanism of solar convection, and analyzes the dimensions and properties of solar granules, and the vertical and horizontal movements of the granular structures of the solar magnetic field. The differential rotation of the sun is discussed, and the activity and changes of magnetic fields in sunspots are explained. The sun is said to resemble a magnetic star with a variable field. The author also reviews the

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ACC NR. AP6016849

information of a magnetic field in an active area and the probable existence of toroidal magnetic fields, as well as the convective movements which produce various waves which heat the chromosphere and the corona. Calculations of their movement, the energy they carry, and their periodicity are mentioned. The chromosphere is stated to be favorable to the appearance of gravitation waves. It is possible that granulation and some types of photospheric movements are closely related to these waves. Temperatures in the solar atmosphere and in sunspot centers are examined, the origin of solar wind, and differences between photosphere and chromosphere in an active area and in a normal area are explained. The correlation between chromospheric flares and solar cosmic-ray emission is assumed. Solar flares which are considerably weaker and smaller than ordinary flares are called "whiskers", but the cause for their appearance is not yet known. [GC]

SUB CODE: 04, 03/ SUBM DATE: none/

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001240

ACC NR. AP6013952

SOURCE CODE: UR/0026/66/000/004/0018/0028

AUTHOR: Pikel'ner, S. B. (Professor)

CRG: State Astronomical Institute im. P. K. Shternberg, Moscow (Gosudarstvennyy astronomicheskiy institut)

TITLE: Cosmic explosions, giant stars and galaxies

SOURCE: Priroda, no. 4, 1966, 18-28

TOPIC TAGS: galactic structure, galaxy, cosmic radio source, gravitation effect

ABSTRACT: A popular account of present day knowledge concerning explosions which take place in the nuclei of galaxies is presented. The following topics are covered: an explosion in the M82 galaxy, galaxies with high speed movement of gas in the nucleus, radio galaxies, quasi-stellar sources, energy of explosions, explosions in gaseous protogalaxies, galactic subsystems and the formation of rectilinear bridges. The author concludes that an explosion at the very early period of galaxy development leads to the formation of a galaxy with a bridge instead of a conventional spiral galaxy. This period is relatively short—the stars of a spherical subsystem are formed over a period of less than 5·10⁸ years. At the same time, approximately half of all the spiral systems have a bridge. This means that the explosions in the earlier stage of galaxy development were rather probable. If the probability of explosion at this time

Card 1/2

UDC: 523.038.85

of radio galax early period o	cies would be much	greater than the	f, in the last half observed spiral gala actual number. Con tained a large amoun	xies, the number sequently, in the
that it is pre	cisely the gaseou gravitational en	as concentrations dergy of the contr	tained a large amoun do today. This supp which explode, i. e. acting gas. Orig. ar	orts the hypothesis
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L 26112-66 EWT(1) ACC NR AP6011486 SOURCE CODE: UR/0053/66/088/003/0505/0526 AUTHOR: Pikel ner, S. B. 62 ORG: Astronomy Institute im. P. K. Shternberg (Astronomicheskiy institut) \mathcal{B} TITIE: Dynamics of solar atmosphere SOURCE: Uspekhi fizicheskikh nauk, v. 88, no. 3, 1966, 505-526 TOPIC TAGS: thermodynamic equilibrium, gravitation wave, solar atmosphere, bremsstrahlung, solar photosphere, solar corona, solar wind, solar energy, entropy, solar magnetic field, solar prominence, sunspot, solar activity, solar chromosphere ABSTRACT: Small periodic vertical motions in the photosphere and horizontal motions in large nucleus-like formations were observed on the solar surface. Large motions occur in meridional circulations and in differential rotation where the angular velocity increases from the poles to the equator. Motions in the photosphere create waves whose energy dissipates. Those waves deliver little energy by radiation and heat the upper layers causing the high coronal temperature. The coronal heat generates the solar wind or outflow of ionized gas. Deviations from thermodynamic equilibrium are caused by the emanation of thermal and mechanical energy from the photosphere. Studying the convective motions in the solar atmosphere facilitates understanding of stellar atmospheric phenomena. The transformation of radiative solar energy into mechanical energy **Card** 1/5 UDC: 523.745

L 26112-66

ACC NR: AP6011486

causes convection. Convective instability occurs in layers of ionized hydrogen in which the logarithmic gradient of radiation is greater than the algebraic one. Gas rises by convection to the height of homogeneous atmosphere, and is assimilated there. The velocity of the gas element is determined by the lifting force, and reaches 2 km/sec in the rarefied upper layer. The entropy of the system decreases in this layer because of radiative energy transfer. The instability of convection is very intense there, and convective transfer reaches its maximum. The importance of convective transfer decreases in the highest layers because of the small absorption coefficient.

Granules are not caused by convection; their mean size is about 700 km and their lifetime is about 8—10 minutes. Bright granules move upward, and the maximum speed is attained 40 seconds after the maximum brightness. The period of upward motion is 2.5 minutes. Very large granules have horizontal motions and are found deeper than normal granulation. The horizontal motion in large granules, or supergranules, may be caused by the magnetic field.

In addition to convective motions, a regular solar motion covers large areas of the surface. This motion consists of the differential ro-

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ACC NR. AP6011486

tation and the meridional circulation. The differential rotation is characterized by an increase in the angular velocity from the poles to the equator for upper layers of the surface. The meridional circulation shows a slow drift of prominences and other characteristics of long-lived phenomena. A transfer from middle latitudes to the poles lasts about 6—7 years, The latitudinal change of sunspots during a solar cycle shows a slow circulation from low latitudes to the equator. The meridional circulation may be explained by a spherical rotation of the sun which may turn into a baroclinic rotation. The rise of the circulation changes the angular velocity, and transfers the angular moment from layer to layer forming a heterogeneous rotation.

The motion in the solar atmosphere is also caused by its magnetic field. A strong magnetic field exists in sunspot groups where individual spots have their own polarities. The spot polarities of the solar Northern Hemisphere are opposite to those of the Southern Hemisphere; but the polarities are reversed in both hemispheres at the beginning of a new solar activity cycle. Before the magnetic field appears on the surface, action motions take place in the solar photosphere. Outside magnetically-active regions a weak magnetic field covers the whole solar surface. This field is stronger in near-polar regions and polarities are opposite in Cord 3/5

L 26112-66

ACC NR: AP6011486

each hemisphere. In the period of maximum solar activity the increased polar field reverses polarity. Active belts and bipolar regions in the North and South may be explained by a toroidal field beneath the solar surface.

Convective motions in the solar atmosphere create waves of a different kind which dissipate in the solar atmosphere and heat the chromosphere and the corona. There are accelerated and decelerated magnetic sound waves, Alfven's waves, and inner gravitational waves. Alfven's waves are predominant in the chromosphere, especially above the active regions. Acoustic waves are generated with isotropic turbulence and very small Mach numbers. The total flux of energy carried by waves is equal to 107 erg/cm sec and its intensity increases above the active regions. The change of this flux is determined by reflection, refraction, and absorption. The photosphere reflects waves having periods larger than 3 min; the other waves penetrate into the chromosphere. The propagation of waves in the solar atmosphere is caused by interchange of their energies. The temperature of the solar atmosphere is determined by the balance between heating by weak shock waves and gravitational waves and cooling by radiation. The density decreases with the altitude and the radiation. Wave energy heats the upper atmospheric layers causing the

Card 4/5

L 26112-66 ACC NR: AP6011486 temperature in the corona to rise to 105K. At the coronal level the thermal velocity of protons is equal to the solar parabolic velocity, and dissipation of the corona eliminates surplus energy. The flow of waves from the chromosphere to the corona above active regions is increased and the corona becomes denser and hotter. The bremsstrahlung ("braking radiation") of relativistic electrons generates X and gamma radiation. The cosmic ray pressure creates bursts and ejections of gases with velocities up to 1500 km/sec. The shock wave propagated in the corona generates plasma waves which are transformed into electromagnetic waves. Relativistic electrons behind the shock wave create magnetic bremsstrahlung. Orig. art. has: 4 figures and 21 formulas. [ATD PRESS: 4224-F] SUB CODE: 03, 20 / SUBM DATE: none / ORIG REF: 027 / OTH REF: 042

Some problems of preparatory operations in ship repair. Mor. flot 15 no.6:16-17 Je '55. (MIRA 8:8) 1. Wachal'nik planovo-proisvodstvennogo otdela zavoda imeni I godovshchiny Oktyabr'skoy revolyutsii. (Ships--Maintenance and repair)

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USSE/Mere, and imical Physical profile Effects of Physical Factors.

Als Jour: Nor Thur-List. 10 20, 1150, 93737.

Ruther : Yakevleva, L. ., Inplin, P. .., Fikernan, S.M., Nevillow.,

M.I., Avetisova, S....

Inst

Pille : Characteristics of Paratypheil Breslau in Monkeys

Waving Rediation Sichness.

Ora, Pab: Med. rediclogiya, 1997, 2, No 4, 58-65.

Absence: Young Medicus in News were infected with a twenty-four nour culture of Research typhi Dreslaw growing on solid man, and the more than subjected to red not on a fig. 250 - 400 r. The ress of Really enia and a should writality more observed. The larry specific man zacon, for yord all were in really grate. Development if an enti-

Card 1/2

151

PLATONOV, P., doktor tekhn.nauk; PIKERSGIL', A., inzh.

Automatic electronic humidity meter for determining the humidity of grain. Radio no.8:27-30 Ag '62. (IIIIA 15:8) (Humidity---Measurements) (Grain elevators---Electronic equipment)

PLATONOV, P., doktor tekhnicheskikh nauk; PIKERSGIL', A., dotsent

Automatic electronic moisture meter. Muk.-elev. prom. 28 no.7:13-15 J1 '62. (MIRA 15:9)

1. Odesskiy tekhnologicheskiy institut imeni Lomonosova. (Grain---Drying)

IVANOV, A., kand.tekhn.nauk; PIKKESGIL', A., inshener.

Using electronic indicators for controlling the work of contimuous transportation systems. Muk.-elev.prom. 23 no.8:16-18 Ag '57.

(MIRA 10:11)

1. Odesskiy tekhnologicheskiy institut im. I.V.Stalina.

(Conveying machinery) (Electronic instruments)

AUTHOR: Pikersgil', A. and Derzhavets, A.

107-9-35 '53

TITLE:

The HF Dynamic Loudspeaker (Vysokochastotnyy dinamicheskiy

gromkogovoritel')

PERIODICAL: Radio, 1957, # 9, p 45 (USSR)

ABSTRACT:

This article deals with the application of the HF spherical dynamic loudspeaker described in the German "Funkschau" # 22, 1956. The authors of this article stated that the performance of the loudspeaker was satisfactory with a 3-5 watt amplifier. When a 8-10 watt amplifier is used, such loudspeakers practically would not influence the tone color, which is damped by the other loudspeakers. The power increase caused also considerable nonlinear distortions. The authors developed a similar design of a HF loudspeaker free from the aforementioned deficiencies, which is to be used only in combination with other loudspeakers reproducing frequencies of 1-15 kilocycles. It has a considerable directivity because of the diffuser. The design of this loudspeaker is described in detail.

The article contains 1 figure and 1 German reference.

AVAILABLE:

Library of Congress

Card 1/1

051118

3CV/107-59-8-38/49

9(2)

Pikersgil', A. AUTHOR:

TITLE:

An Amplifier and Acoustical Unit

PERIODICAL: Radio, 1959, Nr 8, pp 48 - 51 (USSR)

ABSTRACT:

The author provides a detailed description of a console designed for large rooms. It consists of a phonograph, tape recorder, radio receiver and a 40 watt LF amplifier. The dimensions of the console are 1275x570x400 mm. Two series-connected, cophased 2A9 woofers having 30 and 50 cps as a resonance frequency, two 5GD-14 woofers with 7C and 90 cycles resonance frequency and four 2GD-11-1 tweeters. reproducing frequencies up to 15 kc are installed. The louds eakers 2GD-3, 5GD-14 are not suitable for this purpose, since they cause distortions at higher frequencies. The arrangement of the loudsreakers is shown in the diagrams of Figure 6. The circuit

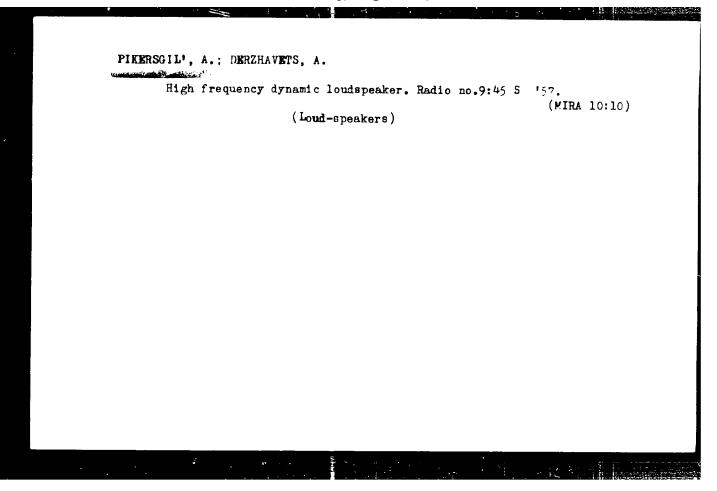
Card 1/2

05418 SCV/107-59-8-38/49

An Amplifier and Acoustical Unit

diagram of the LF amplifier is shown in Figure 1. The amplifier contains the following tubes: two 6N7S, one 6Zh8, one 6N7O, three 6N8S and four 6-807. The rectifier unit is composed of two 5Ts3S kenotrons and a selenium rectifier with VS-45 discs. Tubes 6N8S may be replaced by 6N1P tubes. When replacing tubes 6Zh8 by 6Zh3P or 6Zh1P, circuit adjustments are necessary. Replacing the 6N7S tubes is not advisable. A tone color control is also provided. The tape speed is 385 mm/sec (type of recorder not indicated). The pass band is 30cps to 15 kc. There are 2 circuit diagrams, 10 diagrams, 2 graphs and 1 table.

Card 2/2



PIKERSGIL', A. (Krasnovodsk) (MIRA 7:1) "Baku" radio receiver. Radio no.1:21 Ja 154. (Radio-Receivers and reception)

PIKFPSOIL' A.; DERZHAVETS, A.

Low-frequency emplifier with an accountic aggregate. Radio no. 6:37-39 Je 158.

(Amplifiers, Electron-tube)

THE PERSONNEL PROPERTY.

107-57-1-53/60

AUTHOR: Pikersgil', A. (Odessa)

TITLE: Filter for Effective Noise Suppression. Experience Exchange (Fil'tr dlya

effektivnogo podavleniya pomekh. Obmen opytom)

PERIODICAL: Radio, 1957, Nr 1, p 58 (USSR)

ABSTRACT: In designing superheterodyne receivers with double-frequency conversion, a very difficult problem is that of suppressing signals whose frequency equals the first intermediate frequency. The ordinary rejection filter in the input of the receiver provide inadequate attenuation. The author suggests a new filter-stage circuit designed with one 6Zh4 tube and deep negative feedback. It was tested by the author at 3.350 kc and killed almost all noise in the 23.2 -6 mc broadcast receiver. There are 2 figures in the article.

AVAILABLE: Library of Congress

Card 1/1

AUTHORS:

Pikersgil', A., Derzhavets, A.

117-58-6-14/19

TITLE:

LF Amplifier With Advistical Unit "Willitel" hizely chastity

s akusticheskim agrega' m;

PERIODICAL:

Radio, 1958, Nr 6, pr 20 39 (USBR)

ABSTMACT:

The authors describe an amplifier for high-quality reproduction of musical programs and give instructions for assembling such a device. Since several loudspeakers may be used, the reproducible sound frequencies range from 46 to 14,000 cycles. The amplifier has an output of 20 va with a non-linear distortion factor of not more than 1%. The tone color can be regulated within a range of 10 % system. The background horse is to at the amplifier statlet. The following tubes are used: "6NAS", 1 "6NS", 2 17-60", 1 "5TS3S", 2 10040" and the disde "DG-TS24". This isvite was developed by order of the periodical Padio". Facure

shows the product arrangement of the amplifier.

There are 5 diagrams and a tables.

Card 1/1

1. Amplifiers-Characteristics

PIKERSGIL', A. (Odessa).

Filter for effective suppression of noise. Radio no.1:58 Ja 157.
(Blectric filters) (MLRA 10:2)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

less/	Electronice - Radio receivers	
Card	1/1 · Pub, 89 - 12/28	
Jathore	Pikeragil', A.	
Hue	The "Baku" radio-receiver	
Periodic	el : Radio 1, page 21, Jan 1954	
Abstract	The reception of the Baku - 51° radio receiver is criticized. It is stated that poor radio reception is due to the factories' error in assembling the units.	
Institut	ion:	
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	사회사 (1985년 - 1985년 - 1 1985년 - 1985년 - 1985년 1985년 - 1985년	

PIKERSGIL', A.A.; PLATONOV, P.N.

Selecting the work parameters of automatic capacitance moisture meters for grains in a flow. Izv. vys. ucheb. zav.; pishch. tekh. no.2:147-154 *63. (MIRA 16:5)

AUTHOR:

Pikersgil', G. R.

SUV/50-50-5-11/24

TITLE:

Unusual Weather Phenomena (Neobyknovennyye Javleniya porody)

PERIODICAL:

Meteorologiya i gilrologiya, 1958, Mr 6, pp. 37 - 36 (USOR)

ABSTRACT:

In the Kuban re ion the summer of 1957 was unusually dry and hot. Already in the middle of April the air temperature rose up to 39 - 37° and in some places reached 40-41°. It rained only seldom and irregularly. On July 25th, there was an extremely violent downpour with mail in the district of Stanitsa Voznesenskaya (Labinskiy district). Within 50 minutes 141 mm precipitation fell. The weight of the hailstones amounted to 200 - 260°, that of several single hailstones to 800 and 1400 g. The first flat, multiface shape, or the form of shapeless pure ican chunks. The damage caused by hill and floods was considerable. A cold front sector (in concetion with a deep cyclone over the Dominus) penetrate! into the circulation system of a relief profile cyclone which was formed over the central regions of North Caucasus. Another rare phenomenon was a strong gust of find in the relief of the Krasnodar airport (September 4th, 197, 6 - 7 of lock p.m.). Within 15 - 20 minutes the wind velocity recored to - 20 m/sec

Card 1/2

Unusual Weather Phenomena

361/ 10-5 -6-11/24

and more. This velocity could be measured only in this region, in other places it never exceeded 15 - 20 m/sec. The precipitations amounted to 30 - 40 mm near Krasnodar, whereas in other places 7 - 11 mm were never exceeded. The net of sind was connected with the evolution and shift of a thursder torm and downpour center which appeared on September 4th, towards 5 o'clock p.m. 50 - 60 km west of Krasnodar. First it moved without considerable variations of intensity towards southeast, then eastward. Approximately 30 km before Krasnodar the center than to move towards northeast while its intensity and extension increased rapidly. Its intensity reached its maximum at Krasnodar with a velocity of 40 - 50 km/hour. Later the center made an inticlockwise loop with a dispeter of approximately 150 km.

Meteorology--USSR 2. Climatic factors 3. Precipitation

Card 2/2

Idra

Czechoslovakia / Analytical Chemistry.

E-2

Analysis of Inorganic Substances. Abs Jour: Ref. Zhur - Khimiya No. 2, 1958, 4326

Author : Bardodey, Krivutsova, Kukachkova, Pikha,

Title : The Photometric Micro Determination of Hydrocy-

Orig Pub: Ceskosl. hyg., 1957, 2, No. 4, 244-250

Abstract: A previously described method (Epstein, E. Analyst. Chem, 1947, 19, 272) has been modified. In the HCN determination 1 liter of the air to be passes through 2 wash bottles containing 3 ml. of 0.1N NaOH for about 10 minutes. The contents are washed and neutralized by the addition of 0.3 ml. of 2M Na H₂PO₄. To 2 ml. of the re-

Card 1/4

E-2

Czechoslovakia / Analytical Chemistry. Substances. Abs Jour: Ref. Zhur - Khimiya No. 2, 1958, 4326

sulting solution is added 0.2 ml. of 1% solution of chloramine T and shook for 1 minute. To that, 5 ml. of the pyridine-pyrazolone (ppr) reagent (1 vol. pyridine - h vol. of 1% of 1-phenyl-3-(1 voi. pyridine 4 vol. of 1% of 1-phenyl-3 nethyl-5-pyrazolone) is added, heated for 7 nethyl-5-pyrazolone bath at 70°C. and cooled minutes on a water bath at 70°C. and cooled minutes on a water bath at 70°C. and cooled minutes on a water bath at 70°C. and cooled minutes on a water bath at 70°C. and cooled minutes of the photometer using an S 61 light filter. The resulting red into blue with time violet coloration changing into blue with ing an S of light litter. The resulting reduction changing into blue with time into blue with time the stable for 20 minutes.

The resulting reduction minimum the detection minimum the detection of all the detection of all the detection is stable for 20 minutes. violet coloration changing into plue with minimum the detection minimum the stable for 20 minutes. The detection minimum the stable for 20 minutes. Of dilution 1:10, is stable for 20 minutes. Of dilution 1:10, if of HCN 18 0.18; the limit of dilution 1:10, if the limit of ppriding the vol. of pyridine the vol. of pyridine the vol. In this reagent (1 vol. of pyridine to used. In this phloroglucinol solution) can be used. The phloroglucinol solution are taken after a 7 minute case the readings are taken after a 7 minute.

Card 2/4

ACCESSION WR. AR4033598

8/0169/64/000/002/G027/G027

SOURCE: Ref. sh. Geofis., Abs. 20191

AUTHOR: Ostrovskiy, A. Ye.; Pikha, Ya.; Skal'skiy, L.; Mironova, L. I.; Vitman, N. G.

TITLE: Tidal tilts indicated by observations with photoslectric tiltmeters at Prshibram (near Prague)

CITED SOURCE: Sb. Isuch. semn. prilivov. No. 3. M., AM SSSR, 1963, 69-69

TOPIC TAGS: gravity field, tiltmeter, photoelectric tiltmeter, earth tide, tidal tilt, earth tide component

TRANSLATION: Photoelectric tiltmeters of the Institute of Physics of the Earth of the Academy of Sciences USSR were set up at Prahibram in 1960 at a depth of 1,300 m near the horizontal pendulums of the Czechoslovakian Academy of Sciences. The electrodynamic constants of the tiltmeters were determined to an accuracy of 0.1-0.3%. The record of the tidal tilts was continuous with small gaps from June to December 1960. The behavior of individual components differed sharply from one another. Over a 7-month period the tilt in the north-south direction was 3" and in

Card 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012408

ACCESSION MR: AR4083593

the east-west direction 30°. This tilt was caused by the movement of two blocks along whose contact a mine working had been excavated. The rate of the tilting did not remain constant with time, which appreciably worsened the results of analysis of the tidal observations. Harmonic analysis gave the following mean values ?

 $\gamma_{N-S} = 0.665 \pm 0.011$

YB-W = 0.702 1 0.019.

These figures indicate the existence of a real difference between γ_{R-S} and γ_{E-R}

DATE ACQ: SlMar64

SUB CODE: AS

ENCL: 00

Cord_ 2/2

KAFKA, V. (Praga, 2-ya Sallovskaya, 10, Chekhoslovakiya); MUSIL,
M. (Praga, Chekhoslovakiya); NOVOTNYY, A. [Novotny, A.] (Praga,
Chekhoslovakiya); PADOVED, I. [Padoved, J.] (Praga, Chekhoslovakiya);
PIKHA, Z. [Picha, Z.] (Praga, Chekhoslovakiya); SHORM, F. [Sorm, F.]
(Praga, Chekhoslovakiya)

Treatment of mall gnant neoplasms in female sex organs by means of 6-azauracil. Vop onk. 8 no. 10:11-14 '62. (MIRA 17:7)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

IBSN/Biology - Zoology

Cart 1/1 Pub. 86 - 22/36

Arthurs Pikhachev, C. N.

Title The squirrel in the Tula oak groves

Periodical Priroda 43/8, 111-112, Aug 1954

Abstract Observations were made of the varying abundance of squirrels and the dependence of their numbers on the food supply, which was found to consist primarily of hazelnuts and secondarily of acorns in deciduous forests.

Institution: ...

Submitted:

MCCEDS	ION NK: AF	5013190		cz/084	1/65/000/002/02) sciences)	9/0225	7
AUTHOR	Pichal,	M. (Pikhal, M	(.) (Engineer,	Candidate of	sciences)	27	
TITLE:	Turbulent	boundary lay	ver (tin a flat	wall in a hig	nly turbulent fl	<u>.ov</u>	
SOURCE	: Strojnic	ky саворів, n	10. 2, 1965, 2	19-225			
TOPIC 1 velocit	IAGS: turb ty profile	ulent boundar	y layer, boun	dary layer, t	rbulence, turbu	lent flow,	
solving levels has bee result ary lay gradien the uni	the proble of turbuler of the char of the char yer. This (it. The vel- versal dime	of a turbunce in the maded that the enge in intensional in the substitution of the sub	lent boundary in flow (e.g. ffect of frict ity of the turb stantially gree e in the turb	layer is value in aviation at the water than the later than the la	the properties of the previous conditional consideral aerodynamics), all is consideral e flow outside corresponding layer can be exhibit can be assisted turbulence.	cept of tively low since it ble as a the bound-pressure xpressed by	
Card 1/	6						

1. 44747-65 Accession NR: AP5013190		
This points to the present sections of the boundary H1.2, which in a sufficient constant. It can be estimated in intensity of the turb	layer, which also confidently developed turbuler tablished from the course bulence of the main flow	namic surface smoothness as well). larity of flow in individual cross- irms the course of the form factor int boundary layer is approximately e of u/u = f(Re*) that the change does not affect the entire area of it at its outer edge. At the wall rig. art. has: 6 figures and 1
formula. ASSOCIATION: Ustav ten		(Institute of Thermomechanics,
formula.		
formula. ASSOCIATION: Ustav ten (CBAV)	nomechaniky CSAV, Prague	(Institute of Thermomechanics,
formula. ASSOCIATION: Ustav ten (CBAV) SUBMITTED: 050ct64	nomechaniky CSAV, Prague ENCL: .00	(Institute of Thermomechanics,
formula. ASSOCIATION: Ustav ten (CBAV) SUBMITTED: 050ct64	nomechaniky CSAV, Prague ENCL: .00	(Institute of Thermomechanics,

PIKHALENKO, I.G., gornyy inzh.-elektromekh.; SIDORUK N.S., gornyy inzh.elektromekh.; FAYERMARK, A.A.; gornyy inzh.-elektromekh.

Automation of the production processes in the Southern Mining and Dressing Combine crushing plant. Gor.zhur. no.3:53-55 Mr 160. (MIRA 14:5)

1. Yuzhnyy gorno-obogatitel'nyy kombinat, Krivoy Rog. (Ore dressing) (Automatic control)

PIKHART, Josef

Effect of latticelike paymerization and porosity of katexes on separation of sodium and otassium. Rudy 12 no. 6:180- Je '64.

i palesanjaki i mesa g

1. Research Institut of Organic Syntheses, Pardubice-Rybitvi.

PIKHARI, M.; ZADERA, K.

Mechanical thickener in cellulose production. p. 374.

VODN: HCSPODARSTVI. (Ministerstvo energetiky a vodniho hospodarstvi a Vedecka technicka spolecnost pro vodni hospodarstvi) Praha, Czechoslovakia. No. 9, Sept. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959.

Uncl.

TSVID, A., kand.tekhn.nauk; LUTSENKO, I.; PIKHAY, G.; SAKHAROV, M.; ZIODEYEV, P.; DENISENKO, V.

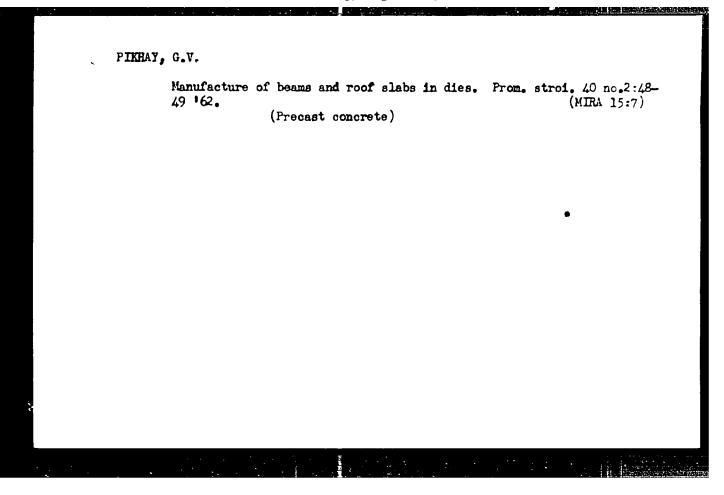
We get word. Stroitel 2 no.7:7 Jl '61. (MIRA 14:8)

(Construction industry—Technological innovations)

PIKHAY, G.V.; PYATKOVSKIY, A.G.

Manufacture of roof channel slabs in reinforced concrete dies. Bet. i zhel.-bet. 8 no.8:366-368 Ag '62. (MIRA 15:9)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240



"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

LIVANOVA, N.B.; PIKHELGAS, V.Ya.; SHUTKUTER, V.C.

Transformations of prosphorylase B in acid and alkaline media.

Dokl. AN SSSR lel no.6:1272-1223 Ap '05.

1. Submitted July 3, 1964.

S/137/60/000/011/030/043 A006/A001

Translation from: Referatinvyy zhurnal, Metallurgiya, 1960, No.11, p. 241, # 27170

AUTHOR:

Pikhel'son, V.F.

TITLE:

Changes in the Magnitude of Microstresses During the Run-In Process

of a Copper-Steel Pseudo-Alloy

PERIODICAL:

Tr. Rostovsk-n/D. in-ta s.-kh. mashinostr., 1959, No. 12, pp.

28 - 31

TEXT: The author studied changes in the magnitude of microstresses during the run-in process of a copper-steel pseudo-alloy. The tests were made with two series of ring specimens, used for the investigation of the friction process, namely: rings with crude and annealed pseudo-alloy. Run-in process was conducted up to a specific pressure of 60 kg/cm²; loading was performed by steps of 10 kg/cm² each; microphotograms were taken after each alternate loading. It is shown that the initial run-in process, which is accompanied by a high friction coefficient and high wear, is characterized by lesser changes in the magni-

Card 1/2

8/137/60/000/011/030/043 A006/A001

Changes in the Magnitude of Microstresses During the Run-In Process of a Copper-Steel Pseudo-Alloy

tude of microstresses than the subsequent periods. In due course the specimen surface is more and more cold hardened and strengthened, as the deformation spreads in the layer depth. This causes a still higher increase of microstresses. It is established that the gradient of stress changes of crude pseudo-alloy is lower than that of annealed pseudo-alloy; this predetermines is greater wear resistance.

Z.F.

Translator's note: This is the full translation of the original Russian abstract.

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Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 11, p. 199, # 26862

AUTHORS:

Krasnichenko, L.V., Pikhel'son, V.F., Shapkin, V.M.

TITLE:

Run-in Ability of a Copper-Steel Pseudo-Alloy

PERIODICAL:

Tr. Rostovsk.-n/d. in-ta s.-kh. mashinostr., 1959, No. 12, pp. 32-

38

TEXT: The authors describe the effect of stepped and stepless loading on the run-in process of a Cu-steel pseudo-alloy. They investigated three groups of the $(C_T, N_1) = 0$ (PSt, M20) pseudo alloy with an initial roughness of about 0.4 mm, which were loaded by steps of 4.5 kg/cm², 11.2 kg/cm² and with a continuously increasing load of 0.562 kg/cm² per minute. The loading time lasted in all the three cases 80 minutes with bringing the specific load to 45 kg/cm². The dependence of the friction moment, the temperature of the operating surface and the coefficient of friction, on the load applied and the run-in time, was investigated. Moreover, changes in the oil-film state along the friction path were studied. It

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Run-in Ability of a Copper-Steel Pseudo-Alloy

S/137/60/000/011/026/043 A006/A001

was established that the Cu-steel pseudo-alloy showed satisfactory short-time runin ability, which is explained by the rapid recovery of the oil film at the expense of the oil accumulated in the pores. The run-in process should preferable be conducted with stepless loading, since the time required to obtain constant friction moment and temperature is in this case twice as short as in stepped loading. The Cu-steel pseudo-alloy can be recommended as an antifriction bearing material.



I.A.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

PINHEM

POLAND/:nalytical Chemistry - . malysis of Inorganic Substances E-2

The state of the same was the same of the

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, No 7642

Author : Ventslevskaya, Pikhen'

Inst : Not Given

Title : The Polarographic Determination of Trace Assumts of Metals

in Pure Aluminum.

Orig Pub : Cher. anal., 1956, No 2-3, 180-183

Abstract : Four g. of the aluminum. being analyzed in dissolved in HCL

(1:1) and when the solubilization is almost completed, a small quantity of $\rm H_2O_2$ is added. The solution is boiled to remove the excess $\rm H_2O_2$ and diluted to 100 ml. Pb, Zn, Cu, Fe and Mn are determined in aliquots polarographically. When the content of the determined metals in the aluminum being analyzed is $< 10^{-24}$, they are concentrated by treatment with

NaOH.

Card : 1/1

PIKHL, Kh.O. [Pihl, H.]

i mikrobiol. 21:210-215'60. (MIRA 16;6)

l. Iz Tallinskogo instituta epidemiologii, mikrobiologii i gigiyeny.

(ESTONIA—SAIMONELLA INFECTIONS)

TERAS, Yu.Kh. [Teras, J.], red.; LAAN, I.A., red.; PIKHL, Kh.O.
[Pihl, H.], red.; TALLMEYSTER, E.T. [Tallmeister, E.], red.;
YANHUS, L.E. [Jamnus, L.], red.; KLENSKIY, K.S., nauchnyy red.;
SEVAST YANOV, A., red.; TOOMSALU, E., tekhn. red.

[Investigations in microbiology] Issledovaniia po mikrobiologii. Tallimm. Vol.1. 1961. 221 p. (MIRA 15:6)

1. Eesti NSV Teaduste Akadeemia. Eksperimentaalse ja Kliinilise Meditsiini Instituut.

(MEDICAL MICHOBIOLOGY)

PIKHL, Kh.O.

Outhreak of Salmonella newport infection in a nursery. Zhur. mikrobiol.epid.i immun. 32 no.2:124-126 F '61. (MIRA 14:6)

l. Iz Tallinskogo instituta epidemiologii, mikrobiologii i gigiyeny. (SALMONELLA)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

ESTONIA/Chemical Technology - Ceramics, Glass, Binding Materials, Concretes.

Н.

Abs Jour

: Ref Zhur - Khimiya, No 16, 1958, 54726

Author

: Pikhlak

Inst

The state of the s

Title

: Industrial Technology on the Manufacture of Glazed Tiles

Orig Pub

: Tehnika ja tootmine, 1958, No 1, 11-13

Abstract

: No abstract.

Card 1/1

SILLA, R.V., kand. med. nauk; PIKHL, Kh.O.[Pihl, H.]; KAPLAN, A.

[Reports of the Third Scientific Conference of the Tallinn Scientific Research Institute of Epidemiology, Microbiology, and Hygiene]Sbornik dokladov tret'ei nauchnoi konferentsii Tallinskogo nauchno-issledovatel'skogo instituta epidemiologii, mikrobiologii i gigieny. Tallinn, 1961. 318 p. (MIRA 16:11)

1. Tallinn. Epidemioloogia, Mikrobioloogia ja Hugieeni Teadusliku Uurimise Instituut. Konverets, 3d, 1960. 2. Tallinskiy nauchno-issledovatel'skiy institut epidemiologii, mikrobiologii i gigiyeny (for Silla, Pikhl). (INTESTINES--DISEASES) (POLIOMYELITIS)

(CHILDREN--CARE AND HYGIENE)

PIKHLAK, A. A. (Noril'sk)

Mosquitoes and methane. Priroda 52 no.1:70 '63.

(MIRA 16:1)

(Mosquitoes) (Methane)

PIKHLAK, E.G. (Moskva)

Gout. Med. sestra 22 no.9:41-46 S'63. (MIRA 16:10)
(GOUT)

PIKHLAK, E. G.

Genesis, prevention, and treatment of gastroduodenal hemorrhages complicating steroid therapy. Terap. arkh. no.12:83-90 '61. (MIRA 15:2)

1. Iz otdeleniya infektartrita (zav. - prof. M. G. Astapenko) Gosudarstvennogo instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A. I. Nesterov) Ministerstva zdravookhraneniya RSFSR.

> (STEROIDS—TOXICOLOGY) (HEMORRHAGE) (DIGESTIVE ORGANS—DISEASES)

PIKHLAK, E.G.

Blood transfusion in treating infectious nonspecific polyarthritis. Sov.med. 25 no.6:90-94 Je '61. (MIMA 15:1)

l. Iz kafedry fakul'tetskoy terapii II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova i Instituta revmatizma Ministerstva zdravookhraneniya RSFSR (dir. - deystvitel'nyy chlen AMN SSJR prof. A.I.Nesterov).

(ARTHRITIS) (BLOOD__TRANSFUSION)

PIKHLAK, Yo.G.

Local administration of hydrocortisone in the treatment of nonspecific infectious polyrthritis. Terap.arkh. 32 no.10: 71-76 60. (MIRA 14:1)

1. Oz otdeleniya infektartrita (zav. - doktor med.nauk M.G. Astapenko) Gosudarstvennogo nauchno-issledovatel'skogo instituta revmatizma, Moskva.

(ARTHRITIS, RHEUMATOID) (CORTISONE)

一种,但是是不是不是不是一种的。

BESOVTSEVA, A.G.; S. I.D.CV, A.G.; MAARVERE, E.; LILLEMAA,A., kand. sel'khoz. nsuk; FIKHLASTE, L.K.[Pihlaste, L.]; PROKHOROVA, Z.F.; MALTIN, T.; KUL'EIN, V.F.; ISAYEVA, Z.I.; EYPON. T.F.[Eibre, T.]; LODINA, N.V.; SUBBOTINA, V.I.; ZHDANOVA, L.P., red; ERAYNINA, M.I., tekhn. red.

[Agriclimatological manual for the Ectonian S.S....] Agroklimaticherkii spravochnik po Ectonokoi SSR. Leningrad, Gidroreteoizdat, 196. 197 p. (MIRA 17:1)

1. Estonian N.S.L. Upravleniye gidron eteorologicheskoy sluzbby. 1. Estonskiy nauchno-issledovatel'skiy institut zemledeliya i relioratsii (for Lillemaa). 3. Glevnyy agronom Upravleniya sadovodstva i pehelovodstva Ministerstva mel'ekogo klezyaystva Estonskoy SSR (for Kul'bin).

(Estonis--Crops and climate)

PIKHLER, G.; KHOL'TSER, Y.; UL'RIKH, R.; FREYDORFER, K.; PETTS, E.

Unforgettable impressions. Avt.transp. 40 no.9:12-13 S
'62. (MIRA 15:9)

("ustria-Relations (General) with Russia)

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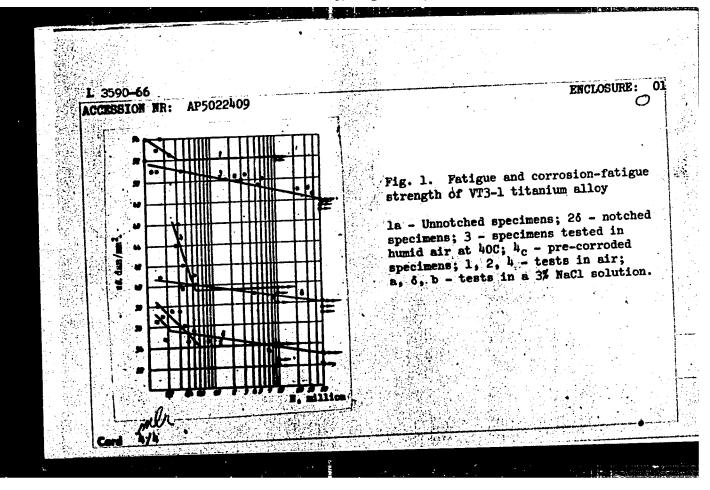
L 3590-66 EWT(m)/EMP(w)/EPF(c)/EMA(d)/I/EMP(t)/EMP(z)/EMP(b) IJP(c) WJW/JD/WE ACCESSION NR: AP5022409 ÚR/0369/65/000/004/0499/0502 AUTHOR: Boltarovich, A. V.; Pikhmurskiy, V. I.; Gutman, E. M.; Meyerson, I. L.; 66
Karpenko, G. V. 74,55 59 TITLE: Corrosion fatigue of VT3-1 titanium alloy BOURCE: Fiziko-khimicheskaya mekhanika materialov, no. 4, 1965, 499-502 TOPIC TAGS: titanium alloy, alloy corrosion, alloy corrosion resistance, alloy fatigue strength, corrosion fatigue strength/VT3-1 titanium alloy ABSTRACT: Unnotched and notched specimens of VT3-1 titanium [U.S. Ti155A] alloy in the as-delivered condition (annealed for 1 hr at 870C, furnace cooled to 650C, held for 1 hr, air cooled to room temperature) or after aging at 400-9000 for 1 hr or at 5000 for 2-100 hr were tested for corrosion resistance in 40-78% H2504 and for fatigue behavior in air or in a 3% solution of NaCl. The alloy aged at 7000 had the highest and the alloy aged at 800-9000 had the lowest corrosion rate: 0.140 and 0.121 mm per year, respectively, compared with 0.124 mm per year for alloy in the as-delivered condition. The highest corrosion rate results from the maximum dispersion of the β-phase structure, which increases the active area of microscopic galvanic pairs that cause corrosion. With aging at temperatures higher than 700C, Cord 1/4

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the structure components coagulate, thus decreasing the active area of microgalvanic pairs and, correspondingly, the corrosion rate. In isothermal aging, the corrosion rate increased with exposure time, e.g., at 5000 from 0.123 to 0.140 mm per year for 2 and 100 hr, respectively. The corrosion incubation period of identically aged VT3-1 alloy increased with the exposure time and decreased with increasing acid concentration. The alloy had high corrosion rates at acid concentrations of 40-70 and 78% and a minimum rate at a 53% concentration. In fatigue and corrosion fatigue tests, unnotched and notched alloy specimens were subjected to rotating bend test at 400 in air (107 cycles) and in humid air (97% humidity) and in a 3% NaCl solution (5.107 cycles). The test results (see Fig. 1 of Enclosure) showed that the alloy fatigue strength in air was 52 dan/mm2. Under the action of 3% NaCl solution, the conditional endurance limit continuously decreased to 48 dan/mm2 at 5.107 cycles. Aging at 5000 for 2 hr had no effect on the endurance limit of the alloy in all investigated media. In corrosive media, the effect of stress concentrators on fatigue strength was negligible. Previous corrosion decreased the fatigue strength of VT3-1 alloy in air from 52 to 39.5 dan/mm². In 3% MaCl solution, the conditional endurance limit stress at the 5.107 cycle basis was 48 and 38 dan/mm² for virgin and precorroded specimens, respectively. The VT3-1 alloy appears to be a suitable material

Card 2/k

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and 1 table.	under stresses in agg	gressive media. Orig.	art. has: 1 figure [MS
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Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,

p 100 (USSR)

AUTHOR:

Pikho, A. P.

TITLE:

Agrochemical Properties of Podzol and Swamp Soils in the Estonian SSR (Ob agrokhimicheskikh svoystvakh

podzolistykh i zabolochennykh pochv

ABSTRACT:

Bibliographic entry on the author's dissertation for the degree of Candidate of Agricultural Sciences, presented to Est. s-kh. akad. (Estonian Agricultural

Academy), Tartu, 1956

ASSOCIATION: Est. s-kh. akad. (Estonian Agricultural Academy)

Card 1/1

Name : PIKHO, A. P.

Dissertation : Cultivation properties of Podzolic and

swampy soils of the Estonian SSR

Degree : Cand Agr Sci

Defended At : Estonian Agricultural Academy

Publication Date, Place : 1956, Tartu

Source : Knizhnaya Letopisi No 5, 1957

PIKHOOYA, R.I., glavnyy veterinarnyy vrach Kamenskogo rayona, Kalininskoy oblasti.

Prophylaxis of noninfectious diseases in young animals. Veterinariia 33 no.7:20-23 Jl '56. (MIRA 9:9) (Kamenskiy District--Stock and stockbreeding)(Veterinary medicine)

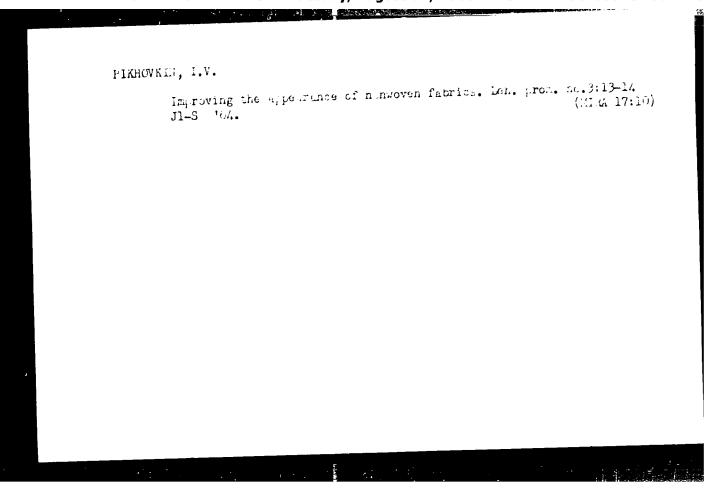
EL'MAN, A.; PIKHOVKIN, F., ekonomist; POLYANSKIY, M.; ANTONENKO, Ye. (Rostov-na-Donu); ZHBANNIKOVA, T., tekhnik (Chkalovsk, Gor'kovskoy obl.); PANFILOVA, V., tekhnik (Chkalovsk, Gor'kovskoy obl.); GOLOVANOV, A.

We discuss O. Gabarov's letter entitled "We must not work this way miny longer". Zhil. kom.khoz. 12 no.8:10-11 Ag '62.

(MIRA 16:2)

1. Nachal'nik zhilishchno-kommunal'nogo otdela g. Kolpino,
Leningradskoy obl. (for El'man). 2. Zhilishchno-kommunal'naya
kontora tresta "Krasnodarstroy", Krasnodar (for Pikhovkin).
3. Glavnyy inzh. filiala Moskovskogo oblastnogo proyektnogo
instituta, g. Klin, Moskovskoy obl. (for Polyanskiy).
4. Nachal'nik zhilishchno-komminal'noy kontory Khabarovskogo
soveta narodnogo khozyaystva (for Golovanov).

(Housing management)



ACC NR AP7003155 SOURCE CODE:

UR/0368/66/005/006/0793/0794

Obukhova, Ye. S.; Pikhtelev, A. I.; Rudnevskiy, N. K. AUTHOR:

ORG: none

TITLE: Spectral investigations of a rubidium light source

SOURCE: Zhurnal prikladnoy spektroskopii, v. 5, no. 6, 1966, 793-794

TOPIC TAGS: rubidium, optic pumping, electric lamp, signal to noise ratio, optic

spectrum, hyperfine structure, temperature dependence, pressure effect

ABSTRACT: To obtain an optical pumping source suitable for use in precision magnetometers and in frequency standards, the authors investigated the spectra of electrodeless rubidium lamps similar to those described by W. E. Bell et al. (Rev. Sci. Instrum. v. 32, no. 6, 688, 1961). Rb87 was used as the working gas and Kr and Ar as buffers. The exciting-generator frequency was 90 - 100 MHz. The tests consisted of determining the fine-structure components of the various lines present in the spectrum of the lamp (besides the main 7800 and 7947 A doublet), which affect adversely the signal/nois ratio, the dependence of the line intensities on the voltage applied to the lamp, the effect of different argon and krypton pressures, and the variation of the half-width and intensity of the hyperfine components of the main doublet as functions of the voltage and temperature. The latter tests have shown that a change of voltage from 90 to 150 v (corresponding to an increase in power from 3 to 8 watts) changes the line width by not more than a factor of 2, while the line intensity is

Cord 1/2

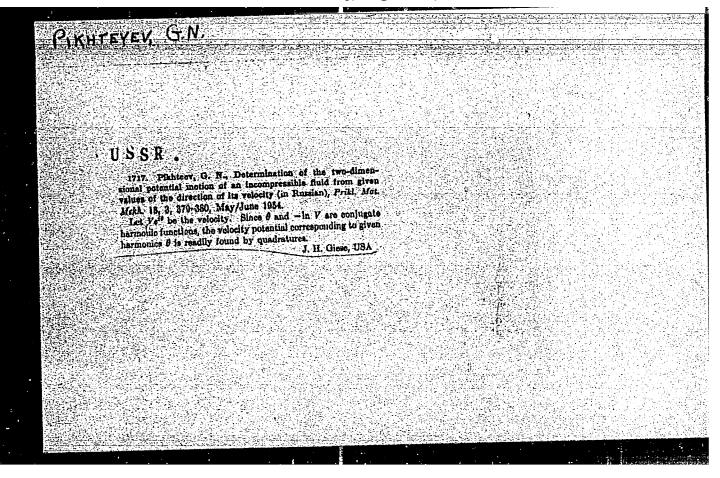
535.89

ACC NR: AP7003155

increased by a factor 4 - 5. When the line width more than doubles, self reversal sets in, and this reduces the usefulness of the lamp. The higher the voltage, the lower the temperature at which self-reversal sets in (it ranges from 110 to 60C as the voltage is changed from 100 to 150 v). The lamp becomes unstable at voltages above 190. Orig. art. has: 2 figures and 1 table.

SUBM DATE: 15Nov65/ OTH REF: 002/ ATD PRESS: 5113 SUB CODE: 20/

TIKHTEREVA, S. PIKHTEHEVA, S., mashinist elektrovosa. Accelerated hamling work. Mast.ugl. 3 no.7:6 J1 '54. (MIRA 7:7) (Mine haulage)



"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA

CIA-RDP86-00513R001240

PIKHTEYEV, (+ N)

SUBJECT USSR/MATHEMATICS/Differential equations CARD 1/3

AUTHOR PICHTEJEV G.N.

TITLE On the problem concerning the flow around a curved bow by liquid

streams in a bounded and in an unbounded flow of an ideal in-

compressible fluid.

PERIODICAL Priklad. Mat. Mech. 19, 421-432 (1955)

reviewed 5/1956

The author considers the flow around a symmetric bow by liquid rays of a stream of an ideal incompressible fluid limited by two plates. The axis of symmetry of the bow L is the middle line of the two plates; the points of separation of the liquid rays from L then are also symmetric. The distribution of the velocities on the bow L is supposed to be given. The form of the bow and the equations of the liquid rays are required. The solution is obtained by applying the classical method of conformal mapping. The solvability of the mixed problem thus appearing is proved. The most important difficulty for concrete problems consists in the calculation of the occuring definite integral

$$J = \sqrt{a^2 - \xi^2} \int_{-1}^{+1} \frac{\ln f(t) dt}{\sqrt{a^2 - t^2}(t - \xi)},$$

where f is a continuous, positive and bounded function of the arc length s of L

Priklad. Mat. Mech. 19, 421-432 (1955)

with f(0) = 0, f(1) = 1. By f the distribution of the velocity is determined: $V = V_0$ $f(\frac{8}{8})$. Transformations and set ups are given which permit to repre-

sent J as an infinite trigonometric series. The required general equation of the bow and the equations of the liquid rays are obtained in a parameter representation. These general considerations are followed by some special cases:

1) For $V = v_0$ tg($\frac{\pi s}{4s_0}$) the bow is given by the equations $\cos \theta$.

$$x = \frac{4s_0}{\pi} \int_{0}^{\cos \theta} \frac{1}{1+t^2} \sin \frac{\pi}{4} g(t) dt, \quad 0 \le \theta \le \frac{\pi}{2},$$

$$y = \frac{4s_0}{\pi} \int_{0}^{\cos \theta} \frac{1}{1+t^2} \cos \frac{\pi}{4} g(t) dt, \quad g(t) = \frac{2}{\pi^2} \frac{1}{t} \ln \frac{1+t}{1-t} dt.$$

2)
The flow around L is considered in an infinite stream and the equations for the bow and for the liquid rays are given.

3) The Kirchhoff condition (the rays are not allowed to intersect with one another) is fulfilled if and only if f satisfies the inequality

Priklad. Mat. Mech. 19, 421-432 (1955)

$$\int_{0}^{1} f(t) \ln f(t) \left(\int_{0}^{t} f(s) ds \right)^{-1/2} dt = C_{2} \neq 0.$$

4) A more exact solution of the problem in question for bounded stream is carried out for

$$V = V_0 \sqrt{\frac{(1-t)(\beta+t)}{(1+t)(\beta-t)}}, \quad 1 \le \beta \le \infty, \quad s = c \int_0^1 \frac{t(1+t)(\beta-t)(\beta-t)}{(\alpha^2-t^2)\sqrt{(\beta^2-t^2)(1-t^2)}}.$$

The solution gives, for certain values of the parameter, either a curve similar to a parabola or to a cycloide.

5) The well-known equations for the flow around plates follow as special cases from the general results.

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SOURCE CODE: UR/0181/67/009/001/0145/0149

AUTHOR: Pikhtin, A. N.; Yas'kov, D. A.

ORG: Leningrad Electrotechnical Institute im. V. I. Ul'yanov (Lenin) (Leningradskiy

TITLE: Dispersion of the refractive index of light in gallium phosphide

SOURCE: Fizika tverdogo tela, v. 9, no. 1, 1967, 145-149

TOPIC TAGS: gallium phosphide, light dispersion, refractive index, light reflection,

ABSTRACT: In view of the lack of detailed data on this subject, and of the importance of GaP as an injection-laser material, the authors study in detail the refraction of light in this substance and present an analytic expression with which the refractive index can be determined over a wide range of photon energies (1.0 - 2.35 ev) and for different temperatures (80 - 290K). The theoretical formula was derived from the dispersion relations. The experiments consisted of absolute measurements of the specular-reflection coefficient of polished n- and p-type GaP plates and determining the refractive index by measuring the angle of least deflection of the radiation by a prism made of the investigated GaP. The test procedures are described briefly. The refractive index drops from an approximate value of 3.4 at 2.5 ev to 2.006 at 290K and 2.983 at 80K at zero photon energy. The temperature coefficient of the refractive index is ~(-5 x 10-4) ev/°K at 290K. Orig. art. has:

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UDC: _none

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SUB ATO	CODE: 20/ FRESS: 51	SUEM DATE:	04Jun66/	ORIG REF:	004/	OTH REF:	007	
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AUTHOR: Pikhtin, A. N. TITLE: Spectroscopic analysis of silicon carbide	UR/0032/65/031/005/0559/0561
TITIE: Spectroses 1	장악들이 있는데 가장 가는 물들이 되었습니다 그 물을 하고 나는 것이 하고 하셨습니?
analysis of silicon carbide	1. 45
pounch: Zavodskaya laboratoriya, v. 31 no 5 10	c. B
lirect arc excitation carbide, spectroscopic analysis	is, impurity determination
BSTRACT: Sixteen elemental impurities, ten of them ave been simultaneously determined in technical gilicon carbide by direct current arc emission specketation conditions. Exposition time, mode of presence effect of atmosphere were studied. A 45-sec expectation of all elements, independent of standards. A relative sensitivity in the 2 x 10 crase relative error of 15-20%, depending on the citation in the air and calibration curves plotted as of silicon carbide. Arc excitation in an ine estandards on the silica base increased the sensi	rwith increased sensitivity, rade or single crystalline troscopy under optimized eparation of the standards, and position was selected for simulof the mode of preparation of 0-3 to 3 x 10-6% range and an element, were achieved using

made it comparable to that A. N. Shteynberg, Zavodak	er of magnitude over contemport t achieved by the volatilizati aya laboratoriya, 30, 2, 178 (1964)], OF1 . [JK]
ASSOCIATION: Leningradsk (Leningrad Electrotechnic	kiy elektrotekhnicheskiy instit cal <u>Institute</u>).	tut im. V. I. Uliyanova
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PIKHTOVNIKOV, R. [Pikhtovnykov, R.], prof. (Khar'kov)

Explosion treats metals. Mauka i zhyttia 12 no.7:13-14 Jl '62.
(MIRA 16:1)

(Explosives in sheet metal work)

ISACHENKOV, Ye. I., PIKHTOVNIKOV, R. V.

Deformations (Yechanics)

"Effect of the speed of deformation on the process of stamping rarts from steel sheet." Vest mash. 32 no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

137-58-5-9588

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5. p 108 (USSR)

AUTHOR:

Pikhtovnikov, R. V.

TITLE:

The Latest in Forming Techniques: Sheet Metal Drawing

(Novoye v tekhnologii shtampovki-vytyazhki listovogo metalla)

PERIODICAL:

V sb.: Progressivn. metody shtampovki i kovki. Khar'kov,

Oblizdat, 1957, pp 164-170

ABSTRACT:

The problem of intensifying the cold forming (F) process by increasing the reduction ratio per working stroke of the press, employment of simplified forms of equipment, and the development of high-speed and superspeed methods is examined. To increase the reduction ratio, heating of the flange is recommended in the case of Al and Mg alloys and deep cooling of the zone of maximum stresses in the case of structural steels, as well as the use of reversible dies permitting the drawing and the redrawing operation to be performed at a single stroke of the press. F with simplified fixtures is advantageous not only in terms of cost but through the reduction in the number of operations afforded by it. Development of high-speed and superspeed methods of cold F is possible if lubricants of optimum viscosity

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are employed. This makes F by shock wave pressure possible. V. F. i. Brakes (Metalworking) -- Operation 2. Metals -- Processing

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137-58-6-12222

Translation from Referation(v. zhurna), Metallurgiva 1958, Nr. 6, p. 150 (USSR)

AUTHOR Pikhtovni

Pikhtovnikov R.V.

TITLE

Superspeed Stamping and Drawing of Sheet Metal (Sverkhskorostnaya shtampovka-vytyazhka listovogo metalla)

PERIODICAL Tr. Khar kovsk. aviats. in-ta, 1957. Nr 17, pp 3-9

ABSTRACT

A rationale is provided for the possibility of employing high speeds in the pressworking of metals. This proposition is proved experimentally as it applies to cold drawing (D) in a special equipment where the punch, actuated by the explosion of gunpowder gases, attained speeds of as high as 300 m/sec. Drawing proceeded without breakage or noticeable decline in the reduction ratio when lubricants of optimum viscosity were employed, as these eliminated the pronounced rise in the forces of friction up to velocities of the order of 100 m/sec. Further increase in speed did lead to a decline in the reduction ratio due to a rise in the forces of inertia. The conclusion drawn to the effect that a virtually unlimited increase in the speeds of pressworking is possible provides a foundation for the development of new processes of production and in certain

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SOV 1137-58-7-14802

Translation from Referativnyy zhurnal, Metallurgiya, 1958, Nr.7, p.124 (USSR)

AUTHOR Pikhtovnikov, P.V.

TITLE Some Questions in the Theory of Single-pass Drawing (Neko-toryye voprosy teorii odnoperekhodnoy shtampovki-vytyazhkii

PERIODICAL. Trudy Khar'kovskogo aviatsionnogo instituta, 1957, Nr 17 pp 63-90

ABSTRACT An analysis is made of the process of drawing (D). An examination is made of the mechanism of single-pass D, and formulas are derived to determine kinematic relationships and to determine the forces and stresses at work. An approximate equation is provided for determination of the magnitude of the work done in D. An investigation is made of the mechanism of deformation of the material on the drawing edge of the die, and it is shown that plastic-bending concepts are not applicable in this case. A method for calculating the resistance of the metal to forging is provided.

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